

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/635,265H
Source:	1/Fus-
-Date Processed by STIC:	1/13/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form-should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/635,265A
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length. The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
Variable Length	Sequence(s) contain n's or Xaa's remesenting more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO.X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO.X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220><223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 0001/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>



IFWO

RAW SEQUENCE LISTING

3 <110> APPLICANT: Duke University

PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:21

Input Set: A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

York, John D 6 <120> TITLE OF INVENTION: NOVEL TARGETS FOR LITHIUM THERAPY AND TOXICITY TREATMENT 8 <130> FILE REFERENCE: 180/158/2 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/635,265A C--> 10 <141> CURRENT FILING DATE: 2003-08-06 10 <150> PRIOR APPLICATION NUMBER: US 60/401480 11 <151> PRIOR FILING DATE: 2002-08-06 13 <160> NUMBER OF SEQ ID NOS: 24 15 <170> SOFTWARE: PatentIn version 3.2 17 <210> SEQ ID NO: 1 18 <211> LENGTH: 2113 19 <212> TYPE: DNA 20 <213> ORGANISM: Homo sapiens Corrected Dickette Needer 23 <220> FEATURE: 24 <221> NAME/KEY: mRNA 25 <222> LOCATION: (1)..(2113) 27 <400> SEQUENCE: 1 60 28 qqaattcggc acgagaagct cggtactgga cacaacgagg gacctgggtc tacgataacg 120 30 cactttact cotoctaaa tatotttaat coaacattat tocaaaatat accataactt 32 ccaqtaacac tgtgttgatg cggttggtag cctccgcata ttctattgct caaaaggcag 180 240 34 gaatgatagt cagacgtgtt attgctgaag gagacctggg tattgtggag aagacctgtg 36 caacagacct gcagaccaaa gctgaccgat tggcacagat gagcatatgt tcttcattgg 300 360 38 cccqqaaatt ccccaaactc acaattatag gggaagagga tctgccttct gaggaagtgg 40 atcaagagct gattgaagac agtcagtggg aagaaatact gaagcaacca tgcccatcgc 420 480 42 agtacagtgc tattaaagaa gaagatctcg tggtctgggt tgatcctctg gatggaacca 540 44 aggaatatac cgaaggtett ettgacaatg taacagttet tattggaatt gettatgaag 600 46 gaaaagccat agcaggagtt attaaccagc catattacaa ctatgaggca ggaccagatg 48 ctgtgttggg gaggacaatc tggggagttt taggtttagg cgcctttggg tttcagctga 660 720 50 aagaagteee tgetgggaaa cacattatea caactacteg atcecatage aacaagttgg 780 52 ttactgactg tgttgctgct atgaaccccg atgctgtgct gcgagtagga ggagcaggaa 840 54 ataagattat tcagctgatt gaaggcaaag cctctgctta tgtatttgca agtcctggtt 56 gtaagaagtg ggatacttgt gctccagaag ttattttaca tgctgtggga ggcaagttaa 900 960 58 ccgatatcca tgggaatgtt cttcagtacc acaaggatgt gaagcatatg aactctgcag 1020 60 gagteetgge cacactgagg aattatgact actatgeaag eegagtteea gaatetatta 1080 62 aaaatgcact tgttccttaa aggaaagttt catttggccg ggcgcggtgg ctcatgcctg 1140 64 taatcccagc actttgggag gccgaggcag gtggatcact tgagctcagg agtttgagac 66 cagcctgggc aatatcgtga gaccccatct ctacaaaaat acaaattaac tgggcatcct 1200 68 gtcatgcgcc tgtcatccca gctacttgag aggctgaagc agaagaatct cttgagcccg 1260 70 gaaggcggag gttgcagtga gctgagatcg tgccactgca ctccagcctg agtgacagga 1320 1380 72 qttaagccct gtctcagaaa aaaaacataa acccaaaaag tacttaaagt ttcatttact 1440 74 tactaggaaa agacttggtt ctcaaataat acattttaag attaattggg tagaattaga 1500 76 qttccacctt tatcattgtt qacagtgatt tatatttagt tatatattta gaataaaaat

1620

1680

1740

1800

1860

1920

1980

2040

2100 2113

RAW SEQUENCE LISTING DATE: 01/13/2004 PATENT APPLICATION: US/10/635,265A TIME: 15:17:21

Input Set : A:\180~158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

```
78 taactaaata atttaacttg attaatacca ttactcaacc tgacaattga gttggagact
80 tataaactca ttatggttat catgtgtttt cctgttgaat gtgaagaagt gagaaaacat
82 ttgccaatga cagttaggcg tgcacactga ccattcactg ataaaccaga ttctgcctga
84 atctgaaggg attgcttgta gcatagggtt tagtggcgtg atcttgggtc actgcggccc
86 gcttccgggg ttcatgcttc tcctgcctag ctccgggtag ctgggactgc agcacggccc
88 acgctggtaa ttttttgtat gatggtgaga agttttcacc gtgttgccag gatggcttat
90 cctgacatcg tgatctgtat gcctcggatc ccaaagtgca tgggatgaca gctgtgagcc
92 accgcacttg gcttaaacca gatttcttta gggcacattt ttttggaatc tcactctgtt
94 tttcacagta attttaaaaa cgttttatcc aattagaata tatatgatgt tattatatat
96 gettatgaaa cagatttatg agaaaagttt tttttaaata aattatttaa teectaaaaa
98 aaaaaaaaaa aaa
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 308
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
107 <220> FEATURE:
108 <221> NAME/KEY: PEPTIDE
109 <222> LOCATION: (1)..(308)
111 <400> SEQUENCE: 2
113 Met Ala Ser Ser Asn Thr Val Leu Met Arg Leu Val Ala Ser Ala Tyr
                                        10
117 Ser Ile Ala Gln Lys Ala Gly Met Ile Val Arg Arg Val Ile Ala Glu
121 Gly Asp Leu Gly Ile Val Glu Lys Thr Cys Ala Thr Asp Leu Gln Thr
            35
                                4 N
125 Lys Ala Asp Arg Leu Ala Gln Met Ser Ile Cys Ser Ser Leu Ala Arg
        50
                            55
129 Lys Phe Pro Lys Leu Thr Ile Ile Gly Glu Glu Asp Leu Pro Ser Glu
133 Glu Val Asp Gln Glu Leu Ile Glu Asp Ser Gln Trp Glu Glu Ile Leu
134
137 Lys Gln Pro Cys Pro Ser Gln Tyr Ser Ala Ile Lys Glu Glu Asp Leu
                100
                                    105
1.38
141 Val Val Trp Val Asp Pro Leu Asp Gly Thr Lys Glu Tyr Thr Glu Gly
           115
                                120
                                                    125
145 Leu Leu Asp Asn Val Thr Val Leu Ile Gly Ile Ala Tyr Glu Gly Lys
                            135
149 Ala Ile Ala Gly Val Ile Asn Gln Pro Tyr Tyr Asn Tyr Glu Ala Gly
                        150
                                            155
153 Pro Asp Ala Val Leu Gly Arg Thr Ile Trp Gly Val Leu Gly Leu Gly
                    165
                                        170
157 Ala Phe Gly Phe Gln Leu Lys Glu Val Pro Ala Gly Lys His Ile Ile
                180
                                    185
161 Thr Thr Thr Arg Ser His Ser Asn Lys Leu Val Thr Asp Cys Val Ala
            195
                                200
165 Ala Met Asn Pro Asp Ala Val Leu Arg Val Gly Gly Ala Gly Asn Lys
                            215
169 Ile Ile Gln Leu Ile Glu Gly Lys Ala Ser Ala Tyr Val Phe Ala Ser
170 225
                        230
                                            235
                                                                 240 .
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

```
173 Pro Gly Cys Lys Lys Trp Asp Thr Cys Ala Pro Glu Val Ile Leu His
                                         250
177 Ala Val Gly Gly Lys Leu Thr Asp Ile His Gly Asn Val. Leu Gln Tyr
                260
                                    -265
181 His Lys Asp Val Lys His Met Asn Ser Ala Gly Val Leu Ala Thr Leu
182 275
                                280
185 Arg Asn Tyr Asp Tyr Tyr Ala Ser Arg Val Pro Glu Ser Ile Lys Asn
        290
                            295
189 Ala Leu Val Pro
190 305
193 <210> SEQ ID NO: 3
194 <211> LENGTH: 27
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif.
203 <221> NAME/KEY: MISC FEATURE variable length not permitted. See item 5 on 204 <222> LOCATION: (2) (2)
204 <222> LOCATION: (2)..(2)
205 <223> OTHER INFORMATION: (\dot{X}) is any number of integers of any amino acid.
207 <220> FEATURE:
208 <221> NAME/KEY: MISC_FEATURE
209 <222> LOCATION: (5)..(5)
210 <223> OTHER INFORMATION (X is any number of integers of any amino acid.
212 <220> FEATURE:
213 <221> NAME/KEY: MISC FEATURE
214 <222> LOCATION: (8)..(8)
215 <223> OTHER INFORMATION: X is isoleucine or an amino acid that can be conservatively
          substituted in place thereof.
216
218 <220> FEATURE:
219 <221> NAME/KEY: MISC_FEATURE
220 <222> LOCATION: (10)..(10)
221 <223> OTHER INFORMATION: X is glycine or an amino acid that can be conservatively
          substituted in place thereof.
224 <220> FEATURE:
225 <221> NAME/KEY: MISC_FEATURE
226 <222> LOCATION: (11)..(11)
227 <223> OTHER INFORMATION: X is threonine or an amino acid that can be conservatively
         substituted in place thereof.
228
230 <220> FEATURE:
231 <221> NAME/KEY: MISC FEATURE
232 <222> LOCATION: (12)..(12)
233 <223> OTHER INFORMATION: X is any number of integers of any amino acid.
235 <220> FEATURE:
236 <221> NAME/KEY: MISC FEATURE
237 <222> LOCATION: (13)..(13)
238 <223> OTHER INFORMATION: X is tryptophan or an amino acid that can be conservatively
          substituted in place thereof.
241 <220> FEATURE:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt Output Set: N:\CRF4\01132004\J635265A.raw

```
242 <221> NAME/KEY: MISC FEATURE
     243 <222> LOCATION: (14)..(14)
     244 <223> OTHER INFORMATION: X is aspartic acid or an amino acid that can be
conservatively
     245
               substituted in place thereof.
     247 <220> FEATURE:
     248 <221> NAME/KEY: MISC FEATURE
     249 <222> LOCATION: (15)..(25)
     250 <223> OTHER INFORMATION: X is any amino acid.
     252 <400> SEQUENCE: 3
W--> 254 Asp Xaa Glu Glu Xaa Asp Pro Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
     255 1
     258 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly
                     20
     259
     262 <210> SEQ ID NO: 4
     263 <211> LENGTH: 290 ·
     264 <212> TYPE: PRT
     265 <213> ORGANISM: Artificial
     267 <220> FEATURE:
     268 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif for Impasel.
     271 <220> FEATURE:
     272 <221> NAME/KEY: MISC FEATURE
     273 <222> LOCATION: (1)..(46)
     274 <223> OTHER INFORMATION: X is any amino acid.
     276 <220> FEATURE:
     277 <221> NAME/KEY: MISC FEATURE
     278 <222> LOCATION: (48)..(69)
     279 <223> OTHER INFORMATION: X is any amino acid.
     281 <220> FEATURE:
     282 <221> NAME/KEY: MISC FEATURE
     283 <222> LOCATION: (72)..(89)
     284 <223> OTHER INFORMATION: X is any amino acid.
     286 <220> FEATURE:
     287 <221> NAME/KEY: MISC FEATURE
     288 <222> LOCATION: (96)..(218)
     289 <223> OTHER INFORMATION: X is any amino acid.
     291 <220> FEATURE:
     292 <221> NAME/KEY: MISC FEATURE
     293 <222> LOCATION: (221)..(231)
     294. <223> OTHER INFORMATION: X is any amino acid.
     296 <220> FEATURE:
     297 <221> NAME/KEY: MISC_FEATURE
     298 <222> LOCATION: (234)..(290)
     299 <223> OTHER INFORMATION: X is any amino acid.
     301 <400> SEQUENCE: 4
```

25

5

20

10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/635,265A TIME: 15:17:21

DATE: 01/13/2004

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

```
40
50
319 Xaa Xaa Xaa Xaa Xaa Glu Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                        75
320 65
             70
323 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Pro Ile Asp Gly Thr Xaa
                     90
105
        100
120
      115
140
   130
               135
150
                        155
340 145
165
                     170
185
        180
205
                 200
      1.95
355 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Asp Xaa Xaa Xaa Xaa
                          220
               215
    210
359 Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                        235
             230
245
                     250
265
        260
372
375 Xaa Xaa
376
   290
379 <210> SEQ ID NO: 5
380 <211> LENGTH: 399
381 <212> TYPE: PRT
382 <213> ORGANISM: Artificial
384 <220> FEATURE:
385 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif for 1ptase.
388 <220> FEATURE:
389 <221> NAME/KEY: MISC FEATURE
390 <222> LOCATION: (1)..(53)
391 <223> OTHER INFORMATION: X is any amino acid.
393 <220> FEATURE:
394 <221> NAME/KEY: MISC FEATURE
395 <222> LOCATION: (55)..(78)
396 <223> OTHER INFORMATION: X is any amino acid.
398 <220> FEATURE:
```

399 <221> NAME/KEY: MISC FEATURE

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:3; Xaa Pos. 2,5,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:4; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:4; Xaa Pos. 42,43,44,45,46,48,49,50,51,52,53,54,55,56,57,58,59,60,61
Seq#:4; Xaa Pos. 62,63,64,65,66,67,68,69,72,73,74,75,76,77,78,79,80,81,82
Seq#:4; Xaa Pos. 83,84,85,86,87,88,89,96,97,98,99,100,101,102,103,104,105
Seq#:4; Xaa Pos. 106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:4; Xaa Pos. 120,121,122,123,124,125,126,127,128,129,130,131,132,133
Seq#:4; Xaa Pos. 134,135,136,137,138,139,140,141,142,143,144,145,146,147
Seq#:4; Xaa Pos. 148,149,150,151,152,153,154,155,156,157,158,159,160,161
Seq#:4; Xaa Pos. 162,163,164,165,166,167,168,169,170,171,172,173,174,175
Seg#:4; Xaa Pos. 176,177,178,179,180,181,182,183,184,185,186,187,188,189
Seq#:4; Xaa Pos. 190,191,192,193,194,195,196,197,198,199,200,201,202,203
Seq#:4; Xaa Pos. 204,205,206,207,208,209,210,211,212,213,214,215,216,217
Seq#:4; Xaa Pos. 218,221,222,223,224,225,226,227,228,229,230,231,234,235
Seq#:4; Xaa Pos. 236,237,238,239,240,241,242,243,244,245,246,247,248,249
Seq#:4; Xaa Pos. 250,251,252,253,254,255,256,257,258,259,260,261,262,263
Seq#:4; Xaa Pos. 264,265,266,267,268,269,270,271,272,273,274,275,276,277
Seq#:4; Xaa Pos. 278,279,280,281,282,283,284,285,286,287,288,289,290-
Seq#:5; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:5; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:5; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,58,56,57,58,59,60,61
Seq#:5; Xaa Pos. 62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,81,82
Seq#:5; Xaa Pos. 83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:5; Xaa Pos. 102,103,104,105,106,107,108,109,110,111,112,113,114,115
Seq#:5; Xaa Pos. 116,117,118,119,120,121,122,123,124,125,126,127,128,129
Seq#:5; Xaa Pos. 130,131,132,133,134,135,136,137,138,139,140,141,142,143
Seq#:5; Xaa Pos. 144,145,146,147,148,149,150,151,152,159,160,161,162,163
Seq#:5; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177
Seq#:5; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:5; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,203,204,205
Seq#:5; Xaa Pos. 206,207,208,209,210,211,212,213,214,215,216,217,218,219
Seq#:5; Xaa Pos. 220,221,222,223,224,225,226,227,228,229,230,231,232,233
Seq#:5; Xaa Pos. 234,235,236,237,238,239,240,241,242,243,244,245,246,247
Seq#:5; Xaa Pos. 248,249,250,251,252,253,254,255,256,257,258,259,260,261
Seq#:5; Xaa Pos. 262,263,264,265,266,267,268,269,270,271,272,273,274,275
Seq#:5; Xaa Pos. 276,277,278,279,280,281,282,283,284,285,286,287,288,289
Seq#:5; Xaa Pos. 290,291,292,293,294,295,296,297,298,299,300,301,302,303
Seq#:5; Xaa Pos. 304,305,306,307,308,309,310,311,312,313,314,317,318,319
Seq#:5; Xaa Pos. 320,321,322,323,324,325,326,327,330,331,332,333,334,335
Seq#:5; Xaa Pos. 336,337,338,339,340,341,342,343,344,345,346,347,348,349
Seq#:5; Xaa Pos. 350,351,352,353,354,355,356,357,358,359,360,361,362,363
Seq#:5; Xaa Pos. 364,365,366,367,368,369,370,371,372,373,374,375,376,377
Seq#:5; Xaa Pos. 378,379,380,381,382,383,384,385,386,387,388,389,390,391
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

Seq#:5; Xaa Pos. 392,393,394,395,396,397,398,399

Seq#:6; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

Seq#:6; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41

Seq#:6; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60

Seq#:6; Xaa Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,76,77,78,79,80 Seq#:6; Xaa Pos. 81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,100,101

Seg#:6; Xaa Pos. 102,103,104,105,106,107,108,109,110,111,112,113,114,115

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004 TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt Output Set: N:\CRF4\01132004\J635265A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

M:341 Repeated in SeqNo=3

L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 M:341 Repeated in SeqNo=4

L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

M:341 Repeated in SegNo=5

L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

M:341 Repeated in SeqNo=6